**REMARKS**

Applicant is in receipt of the Office Action mailed January 24, 2008.

Applicant has corrected various informalities in the specification based on the helpful comments and suggestions provided in the Office Action. No new matter has been entered.

Section 103 Rejections

Claims 1 – 95 were rejected under Section 103 as being unpatentable over: 3,866,126 (Cebula); 5,253,243 (Suzuki); 5,406,198 or 5,438,259 (Orihashi); 6,252,890 (Alger Meunier); 2002/0013672 or 6,556,934 or 2003/0125897 (Highaside).

Applicant has cancelled claims 1 – 41.

Applicant has amended independent claims 42 and 61 to more clearly and distinctly claim Applicant's invention. In particular, claim 42 as amended recites as follows:

42. (Currently Amended) A method for delaying output of a digital marker signal with respect to output of a data signal in an arbitrary waveform generator, the method comprising:

determining a relative delay between the digital marker signal and the data signal based upon a travel path of the digital marker signal and a travel path of the data signal, wherein the data signal is a waveform output by the arbitrary waveform generator and wherein the digital marker signal indicates a predetermined position in the waveform; and

programming a marker delay circuit to delay the output of the digital marker signal to output the digital marker signal at [[a]] the predetermined position with respect to the output of the data signal, based on the determined relative delay.

Applicant submits that none of the cited references are related to an arbitrary waveform generator, and further none teach or suggest a waveform generator that generates a waveform signal and a digital marker. In particular, none of the cited

references teach or suggest a method for delaying output of a digital marker signal with respect to output of a data signal in an arbitrary waveform generator. Applicant submits that the cited references at most teach that it is known to determine a signal propagation delay. However, these references do not teach or suggest the specific elements of independent claims 42 and 61. Thus, Applicant submits that claims 42 and 61 are allowable.

Applicant submits that claims 74 and 86 and those dependent thereon are allowable over the cited references. Claim 74 recites:

74. (Original) A method for delaying output of a first data signal provided by a first waveform generator with respect to output of a second data signal provided by a second waveform generator, the method comprising:
    determining a relative delay between the first data signal provided by the first waveform generator and the second data signal provided by the second waveform generator, based upon a travel path of the first data signal and a travel path of the second data signal; and
    programming a data pipeline delay circuit, based on the determined relative delay, to delay the output of the first data signal to output the first data signal at a predetermined position with respect to the output of the second data signal.

Applicant submits that none of the cited references relate to arbitrary waveform generators, and in particular to "determining a relative delay between the first data signal provided by the first waveform generator and the second data signal provided by the second waveform generator." Applicant submits that the cited references at most teach that it is known to determine a signal propagation delay, but do not teach or suggest the specific elements of independent claims 74 and 86.

**CONCLUSION**

Applicant submits the application is in condition for allowance, and an early notice to that effect is requested.

If any extensions of time (under 37 C.F.R. § 1.136) are necessary to prevent the above-referenced application(s) from becoming abandoned, Applicant(s) hereby petition for such extensions. The Commissioner is hereby authorized to charge any fees which may be required or credit any overpayment to Meyertons, Hood, Kivlin, Kowert & Goetzel P.C., Deposit Account No. 50-1505/5150-85601/JCH.

Also filed herewith are the following items:
☐ Request for Continued Examination
☐ Terminal Disclaimer
☐ Power of Attorney By Assignee and Revocation of Previous Powers
☐ Notice of Change of Address
☐ Other:

Respectfully submitted,

/Jeffrey C. Hood/
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